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MCPFIG6/786/CLO:few
24 October 1950

SUBJECT: Proposal for Air Rescue Communication System

**TO: Commanding General
Air Materiel Command
Wright-Patterson Air Force Base
Dayton, Ohio**

**Attn: Colonel J. H. Rothrock
Electronics Subdivision - MCFEED**

1. Reference is made to [redacted] subject as above, [redacted] dated 19 October 1950.

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2. This proposal has been reviewed and a complete analysis has been made of engineering, labor and material costs completed pursuant to [redacted]

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3. The hourly rates shown are noted as those paid prior to 16 October 1950 on which date the plant and salaried personnel wages and salaries were increased approximately 6 to 10%.

4. The estimated man hours and cost of material, purchased parts and sundry, are being accepted as shown.

5. The Overhead rates and General Administrative rates are rates currently in force on this contract.

6. It is further noted that the 10% profit has been figured on the final total rather than on the net amount. This would have the affect of allowing a profit of over 11.1% of cost.

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for R. C. LYON
AF Contracting Officer

2 Incl. w/attach.
[redacted] ltr dtd 19 Oct 50

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- a. "Scope of Work"
- b. "Air Rescue Communication Systems"
- c. "Cost Analysis"

IF INCLOSURES ARE ATTACHED TO THIS MESSAGE, THEY SHOULD BE CHECKED IN THE MESSAGE FILE.

505-118546-E-2

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*Per CG, AMC
crypt - OSCO
11/9/50*

10/23

19 October 1950

In reply refer to:

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SUBJECT: Proposal for Air Rescue Communication System

THRU: Air Force Officer-in-Charge

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Att: Air Force Contracting Officer

TO: Commanding General
Air Materiel Command
Wright-Patterson Air Force Base
Dayton, Ohio

ATTN: Colonel J. H. Rothrock
Electronics Subdivision - MCRMO

ATTACHMENTS: (A) Part 1: Scope of Work
Part 2: Delivery Schedule
(B) Technical Discussion
(C) Cost Analysis

1. [] submits herewith a proposal and price quotation for a program covering the development and construction of Air Rescue Communication System equipment designed to facilitate the rescue of aircraft crew members forced to land in enemy or neutral territory and at appreciable distances from their bases.

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2. Attachment A, Part 1, entitled "Scope of Work," details the proposed development program. Attachment A, Part 2, entitled "Delivery Schedule" presents the time schedule in which accomplishment of this program is anticipated.

3. Attachment B, entitled "Air Rescue Communication System," is submitted as part of this proposal for the purpose of presenting a detailed discussion of the technical considerations forming the basis of the proposed communication system design, indicating the functions of the various components of the system, and providing estimates with respect to the size and weight of the airborne portion of the system.

4. Attachment C, entitled "Cost Analysis" provides a breakdown

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to
Air Materiel Command

19 October 1950, "Proposal for Air Rescue Communication System".

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of the engineering and shop manpower requirements and cost estimates covering each category of labor. [redacted] estimates a cost of [redacted] to cover the program of engineering design, development, and model shop work necessary to the construction of a completely miniaturized airborne communication set, and for the corresponding work necessary for the construction of one unit each of the base station receiver, recorder, and printer equipment. [redacted] does not propose to construct or deliver base station antenna or transmitter equipment. Inasmuch as anticipatory expenses in the amount of [redacted] have been expended as of September 30, 1950, it is requested that all anticipatory expenses be contractually covered, retroactive to July 26, 1950.

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5. Preliminary discussions with representatives of the Air Materiel Command have indicated the necessity of designing the proposed equipment in such a manner as to insure, to the highest practicable degree, a high order of probability of reliable communication over distances of the order of 2,000 miles or more during daytime operation. Preliminary analysis of the radio propagation problems involved has indicated a reasonable probability of accomplishing these objectives within the period of one year, but a sufficiently detailed study of the propagation and equipment design problems involved to fully assure the development of equipment adequate for the purpose has not yet been completed. Accordingly, it is proposed that the program outlined in Attachment A, Part 1, be undertaken on a "best effort" basis, whereby [redacted] will make every effort to deliver prototype equipment corresponding to the several equipment components essential to the proposed system, but failing to fully complete prototype development, will deliver to the Air Materiel Command at the contract completion date such prototype items as have been completed in addition to such laboratory models of equipment items which have not yet been reduced to prototype form.

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6. [redacted] proposes to issue one or more sub-contracts for the development of highly specialized and miniaturized motor-generator equipment necessary to the power supply unit of the airborne transmitter equipment. This amount is included in the Cost Summary.

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7. In order to accomplish the program as proposed herein, it is essential that adequate priority be assigned to any contract resulting from this proposal.

8. The figures and data contained herein may be considered

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